Attorney Docket No.: 56162.000418

## **CLAIMS**

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1. A method for optimizing cell available (CLAV) status polling, the method comprising the steps of:

determining a first connection speed having a first associated set of PHY addresses and a second connection speed having a second associated set of PHY addresses;

arbitrating status polling based at least in part on a polling ratio involving the first connection speed and the second connection speed;

polling the first and second associated set of PHY addresses to determine a CLAV status for each PHY address, according to the polling ratio;

determining whether each PHY address of the first and second connection speed requires polling; and

re-polling at a connection speed wherein at least one PHY address of the connection speed requires polling.

- The method of claim 1, wherein the polling ratio is based on a number of PHY addresses of the first connection speed and a number of PHY addresses of the second connection speed.
  - 3. The method of claim 1, further comprising the step of: updating the polling ratio based on a number of PHY addresses of the first connection speed that require polling and a number of PHY addresses of the second connection speed that require polling.
  - 4. The method of claim 1, wherein the step of determining whether each PHY address requires polling further comprises the step of:

determining whether the CLAV status is an active CLAV status.

- 5. The method of claim 4, further comprising the step of determining whether the PHY address with an active CLAV status has been serviced.
- 6. The method of claim 1, wherein PHY addresses with an active CLAV status that have not been serviced are not re-polled wherein bandwidth is conserved.
- 7. The method of claim 1, wherein the polling ratio comprises a plurality of polling ratios.

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- 8. The method of claim 7, wherein the poll ratios include 0/100, 25/75, 50/50, 75/25, 100/0 wherein each poll ratio represents the first connection speed to the second connection speed.
- 9. The method of claim 1, wherein one or both of the first connection speed and the second connection speed are software configurable.
  - 10. The method of claim 1, wherein the first connection speed is a fast connection speed and the second connection speed is a slow connection speed.

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- 11. A system for optimizing cell available (CLAV) status polling, the system comprising:
- a determining connection speed module for determining a first connection speed having a first associated set of PHY addresses and a second connection speed having a second associated set of PHY addresses;

an arbitrating status polling module for arbitrating status polling based at least in part on a polling ratio involving the first connection speed and the second connection speed;

a polling module for polling the first and second associated set of PHY addresses to determine a CLAV status for each PHY address, according to the polling ratio;

a determining PHY address status module for determining whether each PHY address of the first and second connection speed requires polling; and

- a re-polling module for re-polling at a connection speed wherein at least one PHY address of the connection speed requires polling.
- 12. The system of claim 11, wherein the polling ratio is based on a number of PHY addresses of the first connection speed and a number of PHY addresses of the second connection speed.
  - 13. The system of claim 11, further comprising:
- a poll ratio module for updating the polling ratio based on a number of PHY addresses of the first connection speed that require polling and a number of PHY addresses of the second connection speed that require polling.
- 14. The system of claim 11, wherein the determining PHY address status30 module further determines whether the CLAV status is an active CLAV status.

- 15. The system of claim 14, wherein the determining PHY address status module further determines whether the PHY address with an active CLAV status has been serviced.
- 16. The system of claim 11, wherein PHY addresses with an active CLAV status that have not been serviced are not re-polled wherein bandwidth is conserved.

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- 17. The system of claim 11, wherein the polling ratio comprises a plurality of polling ratios.
- 18. The system of claim 17, wherein the poll ratios include 0/100, 25/75, 50/50, 75/25, 100/0 wherein each poll ratio represents the first connection speed to the second connection speed.
- 19. The system of claim 11, wherein one or both of the first connection speed and the second connection speed are software configurable.
- 20. The system of claim 11, wherein the first connection speed is a fast connection speed and the second connection speed is a slow connection speed.
- 21. A computer readable medium, the computer readable medium comprising a set of instructions for optimizing cell available (CLAV) status polling and being adapted to manipulate a processor to:

determine a first connection speed having a first associated set of PHY addresses and a second connection speed having a second associated set of PHY addresses;

arbitrate status polling based at least in part on a polling ratio involving the first connection speed and the second connection speed;

poll the first and second associated set of PHY addresses to determine a CLAV status for each PHY address, according to the polling ratio;

determine whether each PHY address of the first and second connection speed requires polling; and

re-poll at a connection speed wherein at least one PHY address of the connection speed requires polling.